New Application: Junichi TAMURA
Filed: December 12, 2003
9 sheets of drawings FIGS.1-9.
RABIN & BERDO, P.C.
Atty Docket: OKI 402
Customer NO.: 23995

FIG.1

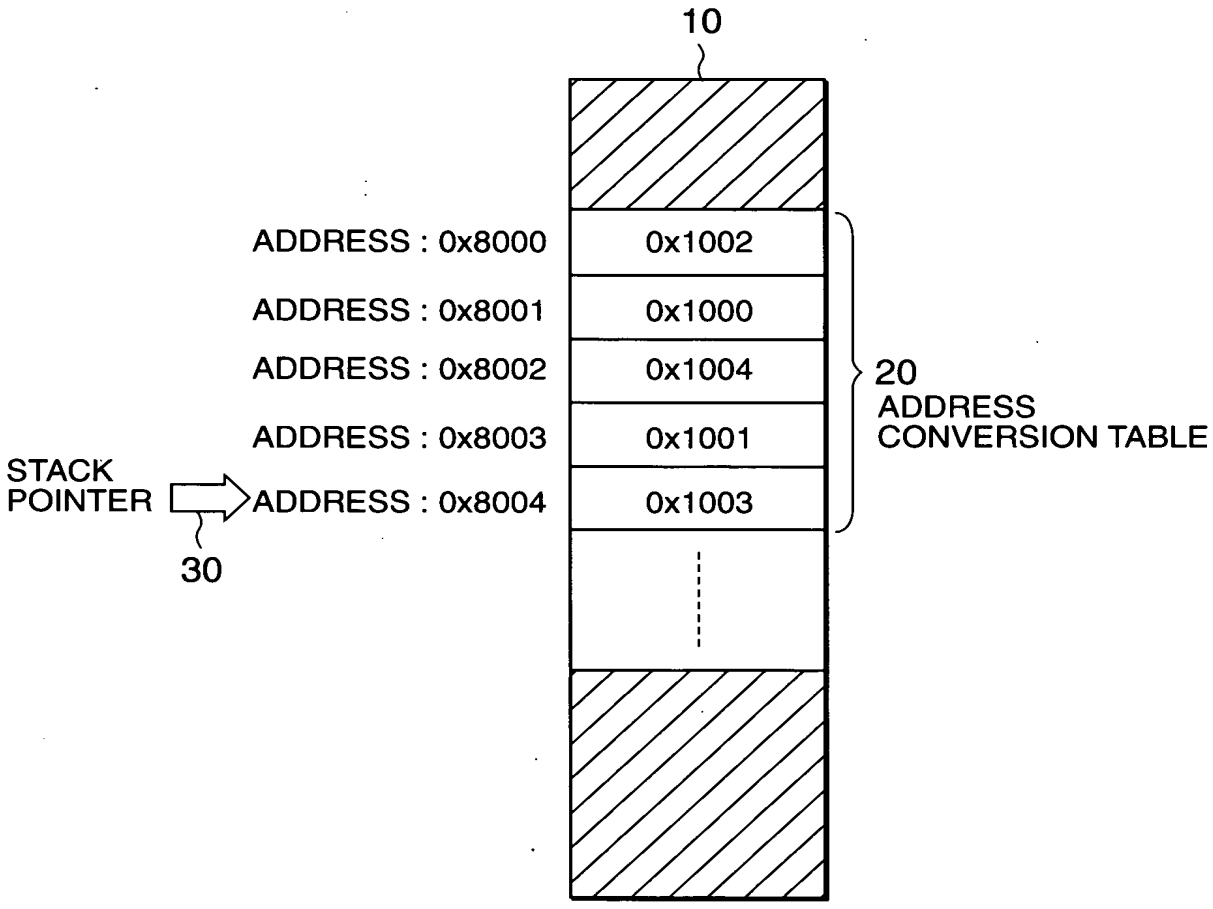

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FIG.2

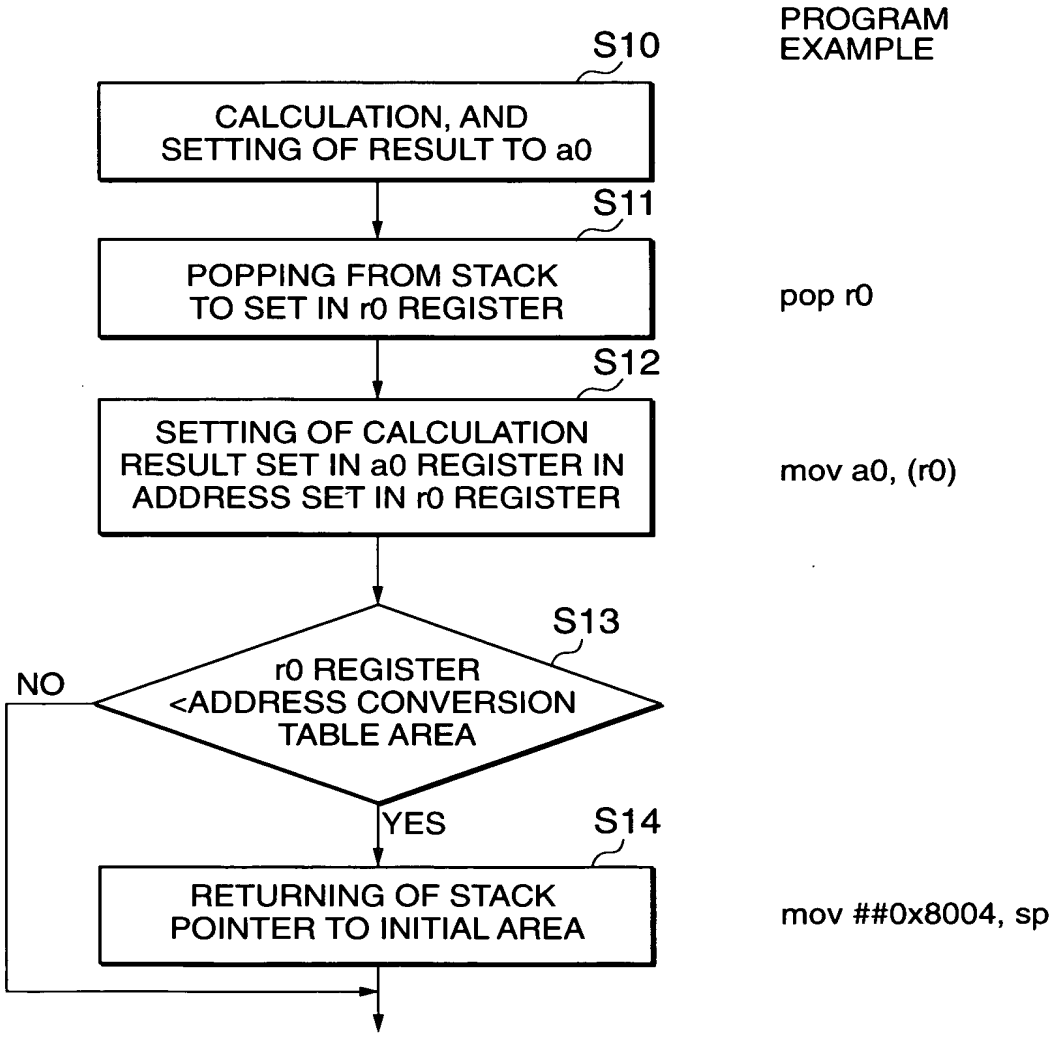

FIG.3

PIPELINE STAGE	t1	t2	t3	t4	t5	t6
FETCH	n1	n2	n3	n4		
DECODE		n1	n2	n3	n4	
READ			n1 (READING FROM MEMORY BY pop)	n2	n3	n4
EXECUTE				n1	n2	n3
WRITE					n1 (WRITING IN MEMORY BY mov)	n2

"pop r0" & "mov a0, (r0)" IS SET AS n1 COMMAND.

FIG.4

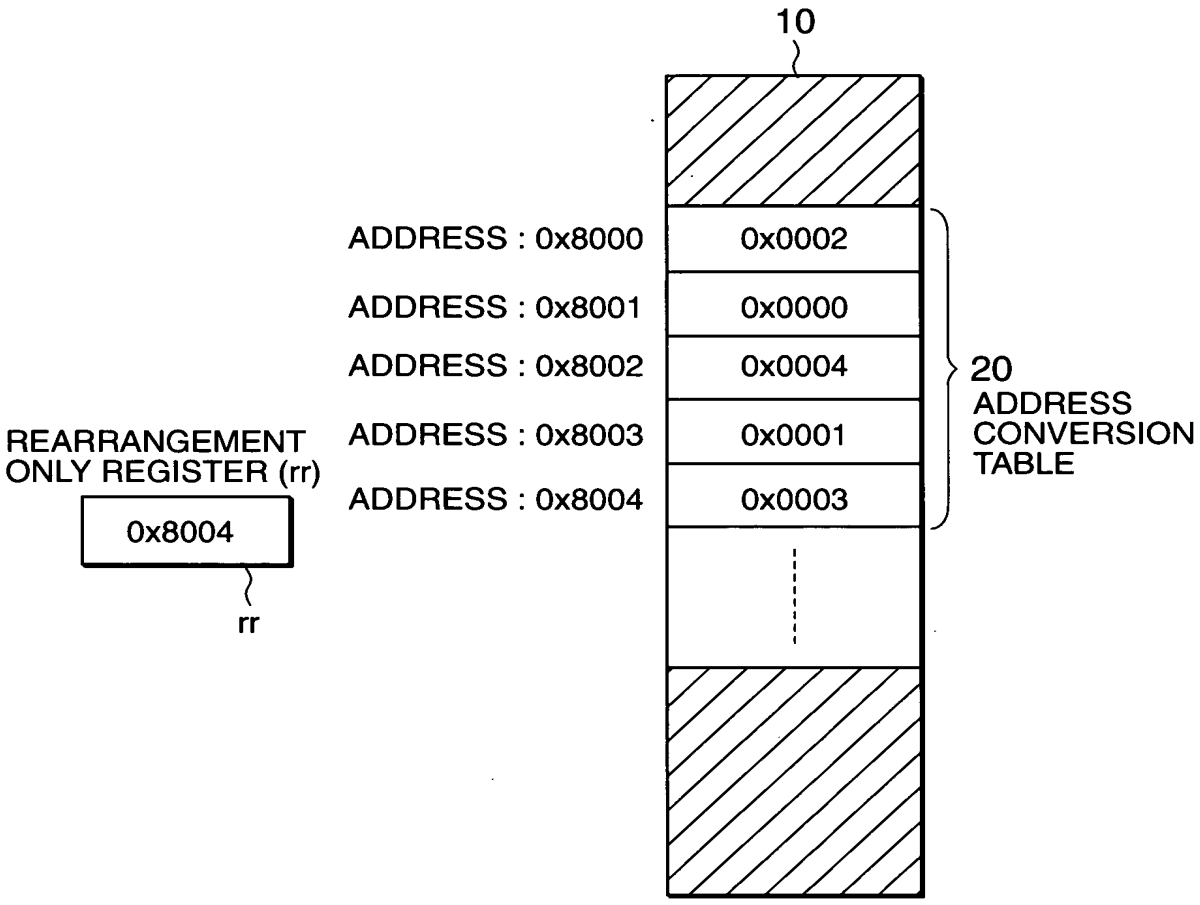
10
ADDRESS : 0x8000
0x0002
ADDRESS : 0x8001
0x0000
ADDRESS : 0x8002
0x0004
ADDRESS : 0x8003
0x0001
ADDRESS : 0x8004
0x0003
20
ADDRESS CONVERSION TABLE
REARRANGEMENT ONLY REGISTER (rr)
0x8004
rr

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FIG.5

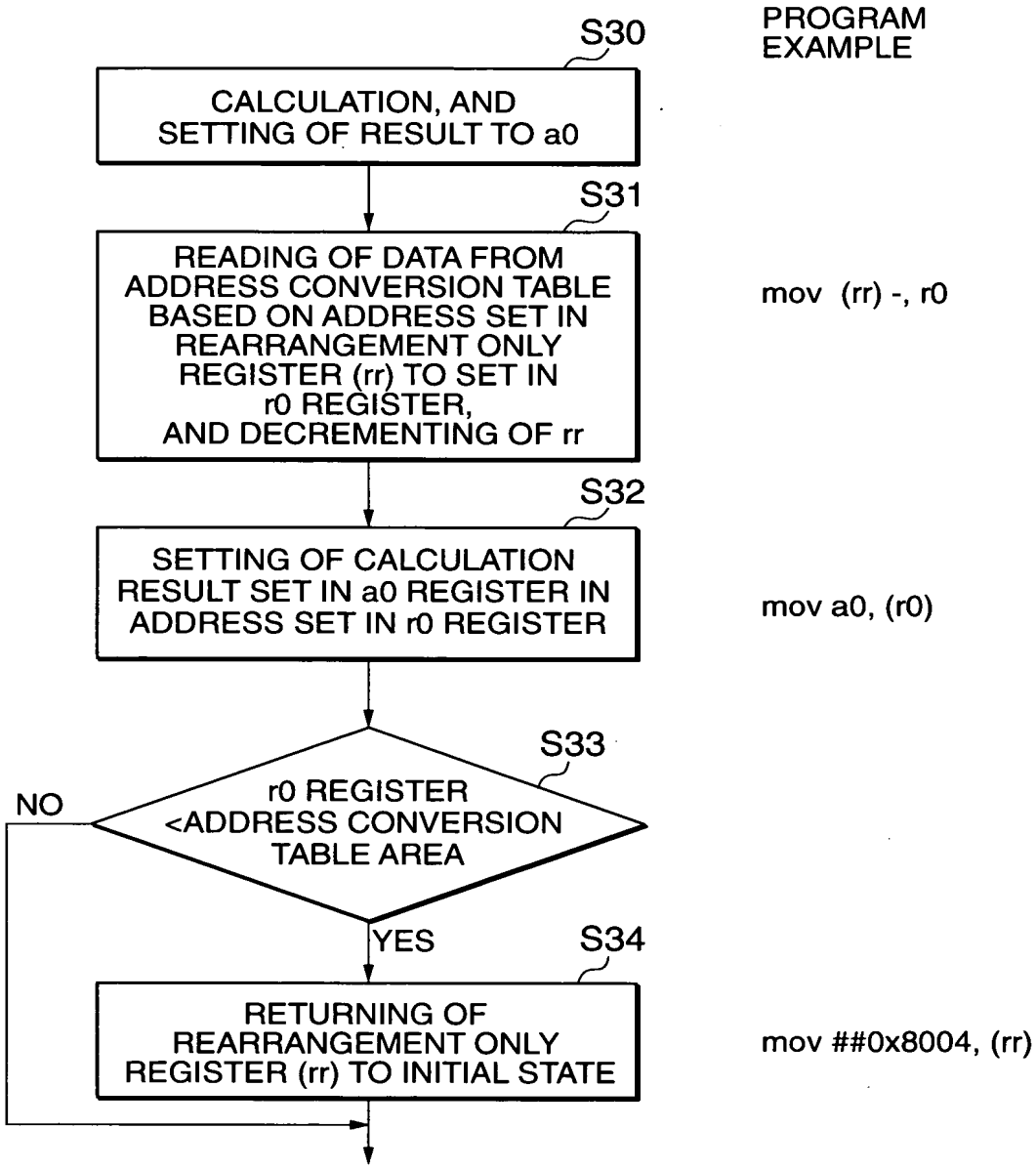

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FIG.6

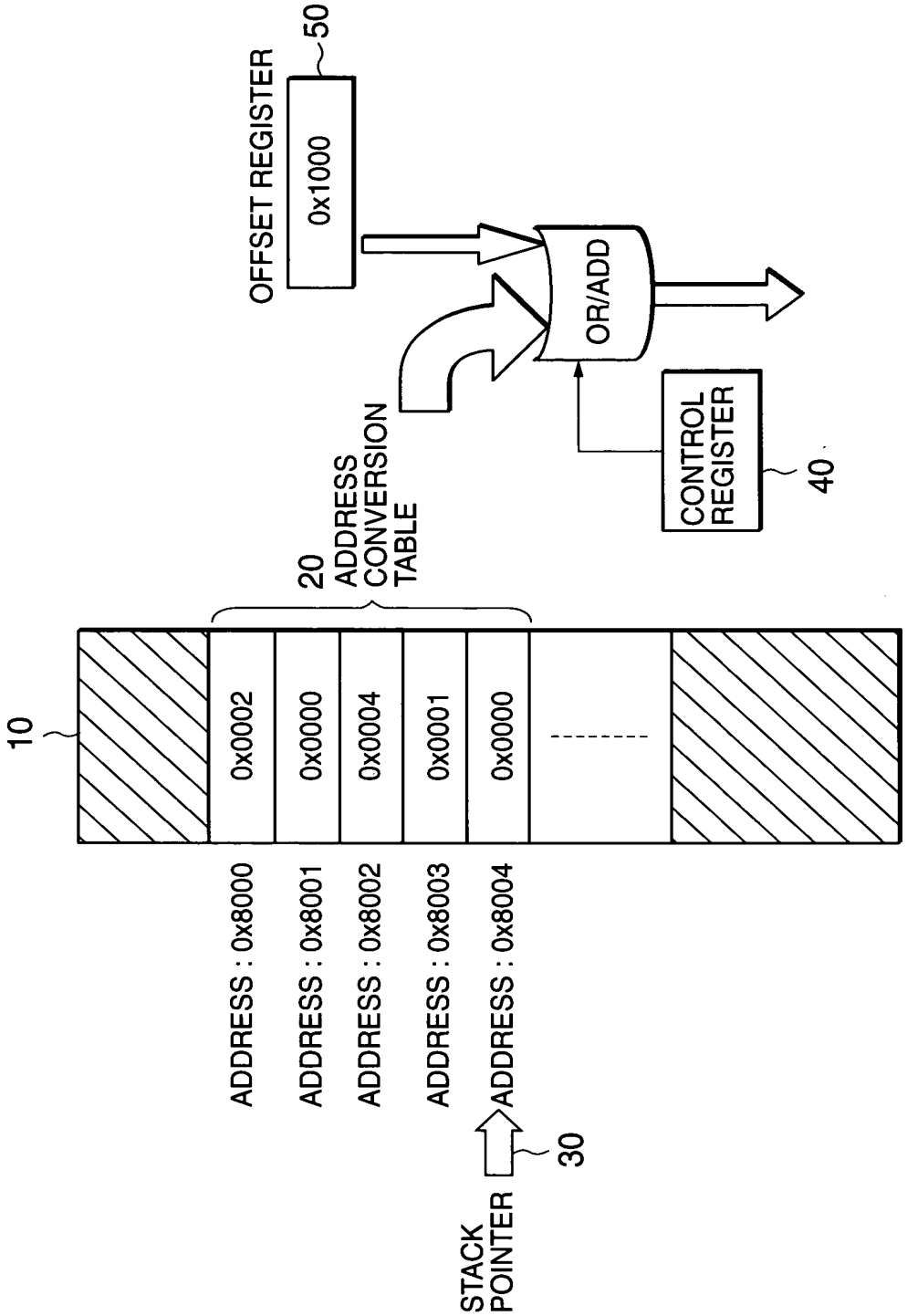

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FIG.7

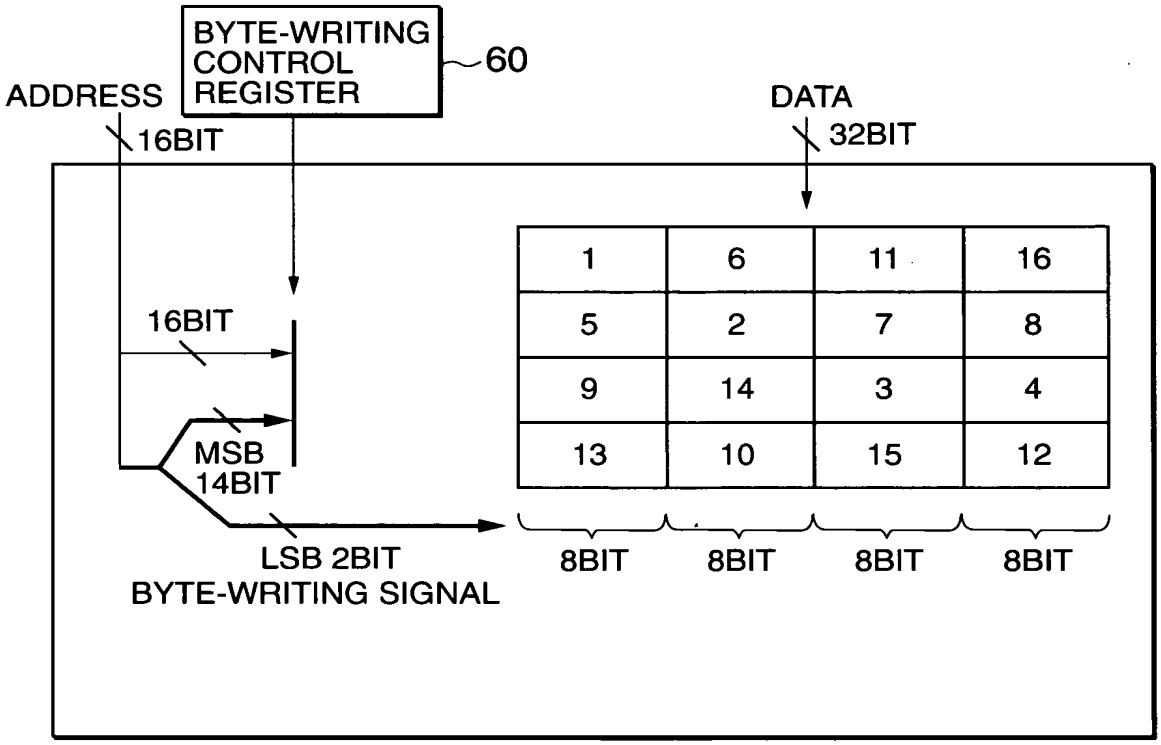
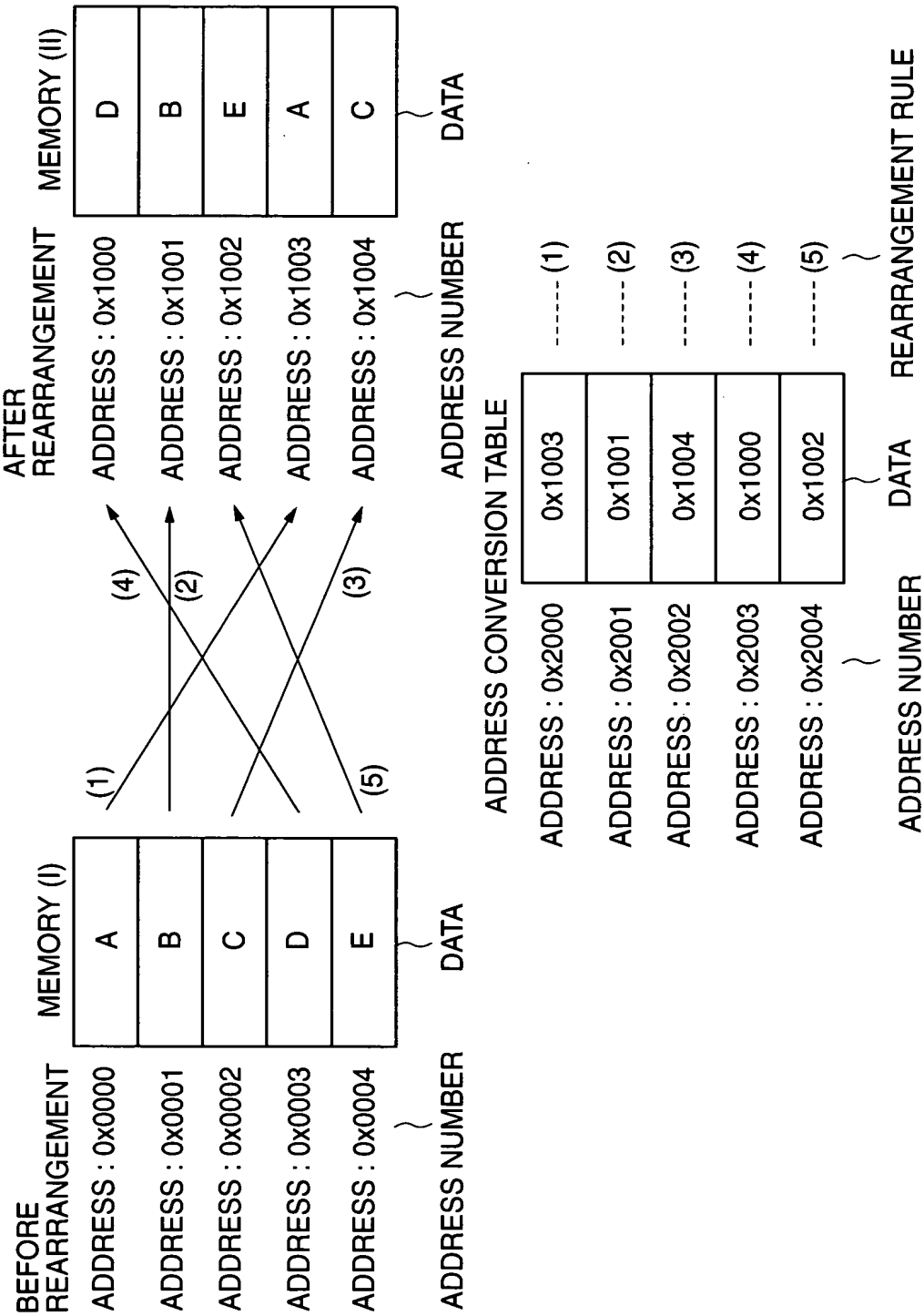


FIG.8


BEFORE REARRANGEMENT
ADDRESS : 0x0000
ADDRESS : 0x0001
ADDRESS : 0x0002
ADDRESS : 0x0003
ADDRESS : 0x0004
ADDRESS NUMBER
MEMORY (I)
A
B
C
D
E
DATA
(1)
(2)
(3)
(4)
(5)
AFTER REARRANGEMENT
ADDRESS : 0x1000
ADDRESS : 0x1001
ADDRESS : 0x1002
ADDRESS : 0x1003
ADDRESS : 0x1004
ADDRESS NUMBER
MEMORY (II)
D
B
E
A
C
DATA
ADDRESS CONVERSION TABLE
ADDRESS : 0x2000
ADDRESS : 0x2001
ADDRESS : 0x2002
ADDRESS : 0x2003
ADDRESS : 0x2004
ADDRESS NUMBER
0x1003
0x1001
0x1004
0x1000
0x1002
DATA
(1)
(2)
(3)
(4)
(5)
REARRANGEMENT RULE

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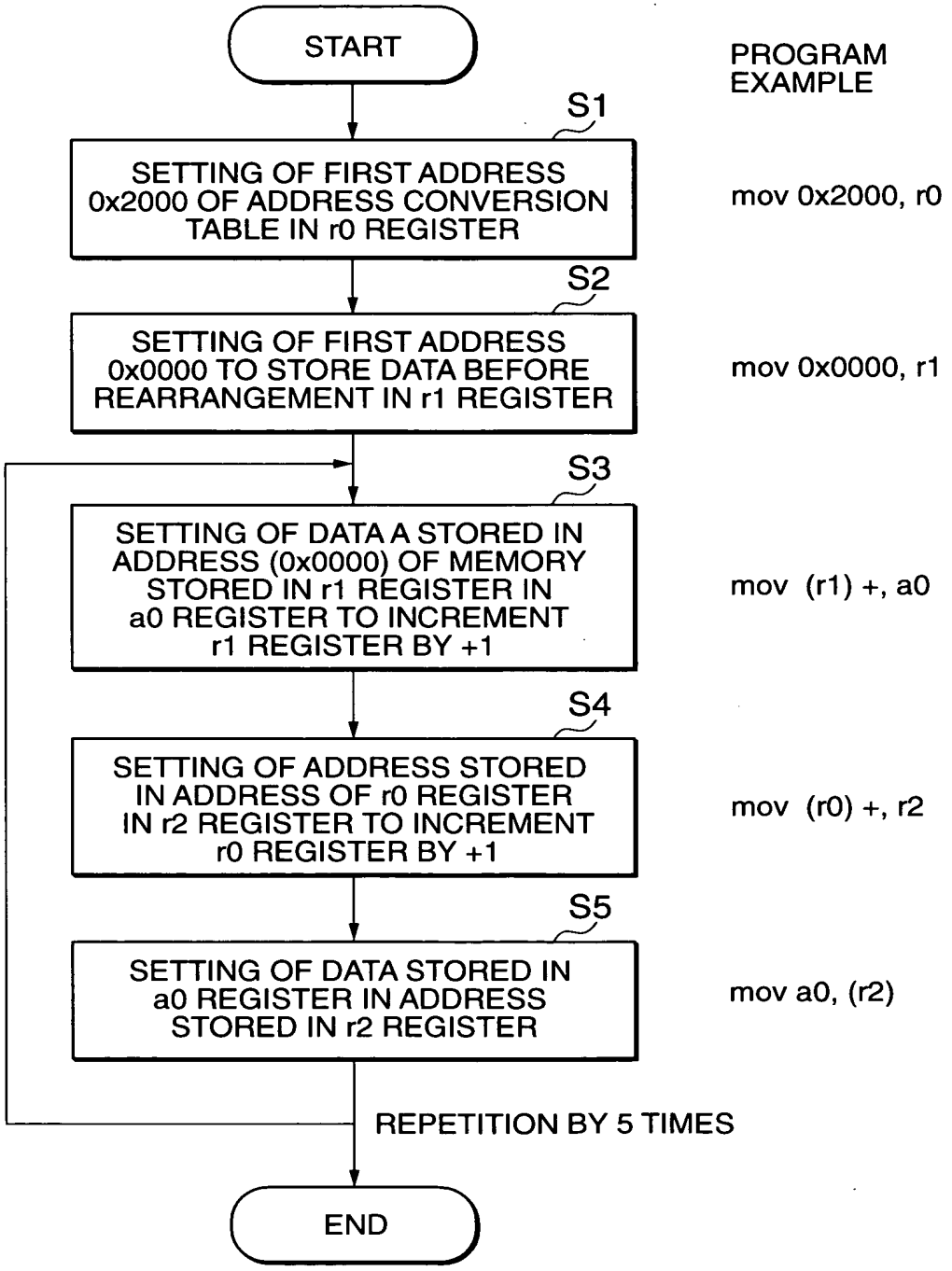
FIG.9